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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,712	03/09/2004	Eric Sprunk	D03043	2860
43471 7590 10/23/2008 EXAMINER				INER
Law Department 1303 East Algonquin Road 3rd Floor Schaumburg, IL 60196			HENNING, MATTHEW T	
			ART UNIT	PAPER NUMBER
			2431	
			NOTIFICATION DATE	DELIVERY MODE
			10/23/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.US@motorola.com

	Application No.	Applicant(s)				
Office Action Comments	10/796,712	SPRUNK ET AL.				
Office Action Summary	Examiner	Art Unit				
	MATTHEW T. HENNING	2431				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 7/28/3	2008					
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
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Disposition of Claims						
4)⊠ Claim(s) <u>1-43</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	n from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-43</u> is/are rejected.						
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8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine						
•		to by the Eveniner				
10)⊠ The drawing(s) filed on <u>17 January 2006</u> is/are:		-				
Applicant may not request that any objection to the o	• • •	, ,				
Replacement drawing sheet(s) including the correcti	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	. ,	· , · , · ,				
1. Certified copies of the priority documents	s have been received					
		on No				
2. Certified copies of the priority documents	• •					
3. Copies of the certified copies of the prior	•	d in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)						
Paper No(s)/Mail Date 6) U Other:						

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1	This action is in response to the communication filed on 7/28/2008.
2	DETAILED ACTION
3	Response to Arguments
4	The examiner first notes that while the amendment filed 7/28/2008, amending claim 34,
5	is not compliant with 37 CFR 1.121 because it did not show proper markings showing the
6	changes made to the claim. However, in the interests of the pendency of the application, the
7	examiner has entered the claims and acted on them accordingly, as shown below.
8	Applicant's arguments filed 7/28/2008 have been fully considered but they are not
9	persuasive.
10	Regarding the applicants' argument that Fischer did not disclose "comparing the initial
11	hash value to a check hash value, wherein the check hash value is also calculated on the original,
12	unaltered information block", the examiner does not find the argument persuasive. This is
13	because the claim does not require that the check hash value is calculated on the original,
14	unaltered information block. Although the claims are interpreted in light of the specification,
15	limitations from the specification are not read into the claims. See In re Van Geuns, 988
16	F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). As such, the examiner does not find the argument
17	persuasive.
18	All objections and rejections not set forth below have been withdrawn.
19	Claims 1-43 have been examined.
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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5-14, 16-23, 31-37, and 40-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Fischer (US Patent Number 5,475,826).

Regarding claims 1 and 23, Fischer disclosed a method of authenticating a set of N information blocks (See Fig. 2), said method comprising: obtaining an initial root key for a set of data comprised of a plurality of blocks of data, said root key operable for authenticating said set of data (See Col. 9 Paragraph 2); calculating hash keys for said plurality of blocks of data so that each of said hash keys corresponds to only one of said blocks of data and so that each of said blocks of data corresponds to only one of said hash keys (See Col. 9 Paragraph 4); storing said hash keys for said plurality of blocks of data (See Col. 9 Paragraph 4 wherein it was inherent that the hashes were stored at least temporarily); altering one of said blocks of data so as to form a revised block of data (See Col. 9 Line 64 - Col. 10 Line 3); calculating a second hash key for said revised block of data, wherein said revised block of data immediately prior to being revised corresponds to a first hash key and wherein said first hash key is one of said hash keys for said plurality of blocks of data (See Col. 10 Paragraph 4); utilizing said stored hash keys, including said first hash key, to calculate a check root key (See Col. 9 Paragraph 4) while utilizing said stored hash keys and said second hash key substituted in place of said first hash key to calculate

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1 a new root key (See Col. 10 Lines 54-60); comparing said check root key with said initial root

- 2 key (See Col. 10 Line 66 - Col. 11 Line 1); accepting said new root key if said check root key
- 3 matches said initial root key (See Col. 11 Paragraph 1).

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- 5 Regarding claim 3, Fischer disclosed calculating said revised hash value while
- 6 calculating said check hash value comprises: hashing said altered block of data so as to obtain a
- 7 first hashing result; storing said first hashing result in a processor; and then hashing the
- 8 corresponding unaltered block of data so as to obtain a second hashing result (See Fischer Col. 9
- 9 Paragraph 4 - Col. 10 Paragraph 4).
- 10 Regarding claim 5, Fischer disclosed that calculating said revised hash value while
- 11 calculating said check hash value comprises: utilizing a single processor to calculate said revised
- 12 hash value and to calculate said check hash value (See Fischer Col. 4 Line 31-45).
- 13 Regarding claim 6, Fischer disclosed performing a linear hash of said set of data by
- 14 hashing said N blocks of data in sequential order from block 1 to block N (See Fischer Col. 10
- 15 Lines 45-53).
- 16 Regarding claim 7, Fischer disclosed hashing each of said N information blocks in said
- set of N information blocks (See Fischer Col. 10 Lines 45-53). 17
- 18 Regarding claim 8, Fischer disclosed storing said initial hash value in a processor (See
- 19 Fischer Col. 9 Paragraph 2).
- 20 Regarding claim 9, Fischer disclosed storing a new value for at least part of one of said N
- 21 information groups (See Fischer Col. 10 Lines 25-53).

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- Regarding claims 10 and 35, Fischer disclosed determining whether said check hash value and said initial hash value are exactly the same (See Fischer Col. 11 Paragraph 1).
- Regarding claims 11 and 36, Fischer disclosed replacing said initial hash value with said revised hash value (See Fischer Col. 8 Lines 45-50).
- Regarding claims 12 and 37, Fischer disclosed storing the new revised hash value in the memory area previously occupied by the initial hash value (See Fischer Col. 8 Lines 45-50).
- Regarding claim 13, Fischer disclosed not accepting said revised hash value as a replacement for said initial hash value if said check hash value does not match said initial hash value (See Fischer Col. 11 Paragraph 1).
- Regarding claim 14, Fischer disclosed indicating a failure to authenticate (See Fischer
 Col. 11 Paragraph 1).
 - Regarding claim 16, Fischer disclosed replacing said initial hash value with said revised hash value (See Fischer Col. 7 Line 65 Col. 8 Line 15 and Col. 8 Line 58 Col. 11 Line 10 and Fig. 1).
 - Regarding claims 17 and 40, Fischer disclosed receiving as part of an initialization routine a length of a data set to be hashed, wherein said data set is comprised of said N information groups (See Fischer Col. 7 Line 65 Col. 8 Line 15 and Col. 8 Line 58 Col. 11 Line 10 and Fig. 1).
- Regarding claim 18, Fischer disclosed padding at least one of said N information groups so that each of said N information groups is of equal length (See Fischer Col. 7 Line 65 Col. 8 Line 15 and Col. 8 Line 58 Col. 11 Line 10 and Fig. 1).

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- 1 Regarding claims 19 and 42, Fischer disclosed initializing a processor so as to perform a
- 2 hashing routine (See Fischer Col. 7 Line 65 Col. 8 Line 15 and Col. 8 Line 58 Col. 11 Line 10
- 3 and Fig. 1).
- 4 Regarding claim 20, Fischer disclosed initializing a hashing routine by entering the
- 5 length of said set of data (See Fischer Col. 7 Line 65 Col. 8 Line 15 and Col. 8 Line 58 Col.
- 6 11 Line 10 and Fig. 1).
- Regarding claims 21 and 43, Fischer disclosed dividing the set of data into a plurality of
- 8 blocks (See Fischer Col. 7 Line 65 Col. 8 Line 15 and Col. 8 Line 58 Col. 11 Line 10 and Fig.
- 9 1).
- Regarding claims 22 and 41, Fischer disclosed dividing the set of data into a plurality of
- blocks of data; padding the last block of data so that each of said blocks of data is of equal length
- 12 (See Fischer Col. 7 Line 65 Col. 8 Line 15 and Col. 8 Line 58 Col. 11 Line 10 and Fig. 1).
- 13 Regarding claim 31, Fischer disclosed encrypting said hash keys for said plurality of
- blocks; and storing said encrypted hash keys in memory outside of a processor (See Fischer Col.
- 15 7 Lines 3-14).
- Regarding claim 32, Fischer disclosed storing said hash keys for said plurality of blocks
- in a processor (See Fischer Col. 7 Lines 3-14).
- 18 Regarding claim 33, Fischer disclosed storing said root key inside a processor (See
- 19 Fischer Fig. 1).
- Regarding claim 34, Fischer disclosed storing a new value for at least part of one of said
- 21 information groups (See Fischer Col. 9 Line 64 Col. 10 Line 3).

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1 Claim Rejections - 35 USC § 103 2 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 3 obviousness rejections set forth in this Office action: 4 A patent may not be obtained though the invention is not identically disclosed or 5 described as set forth in section 102 of this title, if the differences between the subject matter 6 sought to be patented and the prior art are such that the subject matter as a whole would have 7 been obvious at the time the invention was made to a person having ordinary skill in the art to 8 which said subject matter pertains. Patentability shall not be negatived by the manner in which 9 the invention was made. 10 11 Claims 2, 4, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over 12 Fischer. While Fischer did not specifically disclose parallel processing, it was well known that 13 processing can be accomplished concurrently in order to save time and therefore would have 14 been obvious to have done so. 15 Claims 15, 28-30, and 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer, and further in view of Sprunk et al. (US Patent Number 5,754,659) hereinafter 16 17 referred to as Sprunk. 18 While Fischer disclose a method for updating a hash for a file when a record in the file is 19 altered, Fischer failed to disclose the use of a branch key in the hashing system, or that the 20 system was used for signing digital media rights data. 21 Sprunk teaches an efficient hashing method including the limitations of claims 25-30, and 22 further teaches that the hashing system can be used to sign access right data (See Sprunk Col. 6 23 Line 50 – Col. 11 Line 14). 24 It would have been obvious to the ordinary person skilled in the art at the time of 25 invention to employ the teachings of Sprunk in the signature system Fischer. This would have

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1 been obvious because the ordinary person would have been motivated to increase the efficiency 2 of the system. 3 Conclusion 4 Claims 1-43 have been rejected. 5 The prior art made of record and not relied upon is considered pertinent to applicant's 6 disclosure. 7 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time 8 policy as set forth in 37 CFR 1.136(a). 9 A shortened statutory period for reply to this final action is set to expire THREE 10 MONTHS from the mailing date of this action. In the event a first reply is filed within TWO 11 MONTHS of the mailing date of this final action and the advisory action is not mailed until after 12 the end of the THREE-MONTH shortened statutory period, then the shortened statutory period 13 will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 14 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, 15 however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action. 16 17 Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW T. HENNING whose telephone number is 18 19 (571)272-3790. The examiner can normally be reached on M-F 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent 1 2 Application Information Retrieval (PAIR) system. Status information for published applications 3 may be obtained from either Private PAIR or Public PAIR. Status information for unpublished 4 applications is available through Private PAIR only. For more information about the PAIR 5 system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR 6 system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would 7 like assistance from a USPTO Customer Service Representative or access to the automated 8 information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000. 9 10 11 /Matthew T Henning/ 12 Examiner, Art Unit 2431 13 14 /Christopher A. Revak/ 15 Primary Examiner, Art Unit 2431